



DATE FILED

6-1-2016

APPLICATION NUMBER

2016-646

For office use only

2016-646

6-1-2016

APPLICATION FOR CHANGE IN ZONING CLASSIFICATION
OR CHANGE IN CONDITIONS
(SEE FILING INSTRUCTIONS)

TO: Town of Matthews Board of Commissioners

Town of Matthews Planning Board

232 Matthews Station Street

Matthews, North Carolina 28105-6713

Ladies and Gentlemen:

Your consideration of this petition is requested for:

☐

A change in zoning classification of the property hereinafter described; or

☒

A change in conditions to an existing conditional zoning plan.

Tax parcel number(s): 213-29-104

Address of property: 300 Pineville-Matthews Road, Matthews, North Carolina 28105

Location of property:

Title to the property was acquired on February 1, 1988

and was recorded in the name of Cross and Crown Lutheran Church

whose mailing address is 1024 Pineville-Matthews Road, Matthews, North Carolina 28105

The deed is recorded in Book 5965 and Page 525 in the office of the Register of
Deeds for Mecklenburg County.

Present zoning classification: R/I (CD)

Requested zoning classification: R/I (CD) (Amendment to Permitted Uses)

List reason(s) why zoning should be changed (use separate sheet if necessary):

Petitioner has contracted with the Property Owner to construct a bell tower for the church. The bell tower is proposed to include co-location antennae for cellular communications. The use of the bell tower to co-locate the cellular antennae requires an amendment to the permitted uses of the approved zoning. The co-location of the antennae on the bell tower promotes public safety and benefits the community without the appearance of a cell tower. Petitioner has worked with the property owner to arrive at an attractive bell tower design that benefits the church.

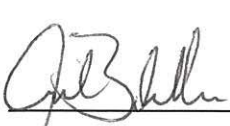
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 (Congregation President)

Signature of property owner (must be original)

Cross & Crown Lutheran Church

Print name of property owner
300 Pineville-Matthews Road

Property owner's mailing address
Matthews, North Carolina 28105

Property owner's mailing address, continued

Property owner's mailing address, continued

(704) 847-5967

Property owner's phone number/email address

Signature of property owner (must be original)

Print name of property owner

Property owner's mailing address

Property owner's mailing address, continued

Property owner's mailing address, continued

Property owner's phone number/email address

Signature of agent (if any)

Print name of agent

Agent's mailing address

Agent's mailing address, continued

Agent's mailing address, continued

Agent's phone number/email address

Petitioner other than owner (if any)

Vertical Bridge Development II, LLC

Print name of petitioner
750 Park of Commerce Drive, Suite 200

Petitioner's mailing address
Boca Raton, Florida 33487

Petitioner's mailing address, continued

Petitioner's mailing address, continued

(770) 331-8376 cgould@verticalbridge.com

Petitioner's phone number/email address

List reason(s) why zoning should be changed (use separate sheet if necessary):

Petitioner has contracted with the Property Owner to construct a bell tower for the church. The bell tower is proposed to include co-location antennae for cellular communications. The use of the bell tower to co-locate the cellular antennae requires an amendment to the permitted uses of the approved zoning. The co-location of the antennae on the bell tower promotes public safety and benefits the community without the appearance of a cell tower. Petitioner has worked with the property owner to arrive at an attractive bell tower design that benefits the church.

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Property owner's mailing address, continued

Property owner's mailing address, continued

Property owner's phone number/email address

Signature of agent (if any)


Print name of agent

Agent's mailing address

Agent's mailing address, continued

Agent's mailing address, continued

Agent's phone number/email address



Petitioner other than owner (if any)

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Boca Raton, Florida 33487

Petitioner's mailing address, continued

Petitioner's mailing address, continued
(770) 331-8376 cgould@verticalbridge.com

Petitioner's phone number/email address

List all tax parcel numbers, names, and mailing addresses of all property owners subject to notification of this zoning application. Attach additional sheets if necessary.

See item #7 in instruction sheet titled "Instructions for Filing an Application for a Change in Zoning Classification or Change in Conditions for Property located in the Town of Matthews."

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See attached Exhibit A

TAX PARCEL

TAX PARCEL

PROPERTY OWNER NAME(S)

PROPERTY OWNER NAME(S)

OWNER MAILING ADDRESS

OWNER MAILING ADDRESS

OWNER MAILING ADDRESS, CONTINUED

OWNER MAILING ADDRESS, CONTINUED

TAX PARCEL

TAX PARCEL

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OWNER MAILING ADDRESS, CONTINUED

OWNER MAILING ADDRESS, CONTINUED

SUMMARY OF THE REZONING PROCESS

2016-646
6-1-2016

PETITIONER: Fill in dates for each action below before filing application. Refer to the current Planning Department rezoning schedule for correct dates.

PROPERTY OWNERS: These dates are assumed to be correct at the time of zoning application submittal but are subject to revision. Contact the Planning Department (704-847-4411 or email blynd@matthewsnc.gov) for verification.

Application submitted to and accepted by the Town of Matthews June 1, 2016

Town Board of Commissioners formally accepts application and sets Public Hearing date June 13, 2016

Notices sent via mail to affected/adjacent property owners on or before June 27, 2016

Protest petition filed with Planning Department by 5:00 pm on NA

Public hearing: petitioner may give explanation of why s/he wishes to have property rezoned and neighboring owners may ask questions and voice opinions on the proposed zoning July 11, 2016

Town Planning Board reviews petition, information, and comments from the public hearing, then makes a recommendation to the Board of Commissioners on whether to approve or deny the request July 26, 2016

Town Board of Commissioners approves or denies application August 8, 2016

GENERAL STATUTE 160A-385: CHANGES.

- (a) Zoning ordinances may from time to time be amended, supplemented, changed, modified or repealed. In case, however, of a qualified protest against a zoning map amendment, that amendment shall not become effective except by favorable vote of three-fourths of all the members of the city council. For the purposes of this subsection, vacant positions on the council and members who are excused from voting shall not be considered "members of the council" for calculation of the requisite supermajority. To qualify as a protest under this section, the petition must be signed by the owners of either (i) twenty percent (20%) or more of the area included in the proposed change or (ii) five percent (5%) of a 100-foot wide buffer extending along the entire boundary of each discrete or separate area proposed to be rezoned. A street right of way shall not be considered in computing the 100-foot buffer area as long as that street right of way is 100 feet wide or less. When less than an entire parcel of land is subject to the proposed zoning map amendment, the 100-foot buffer shall be measured from the property line of that parcel. In the absence of evidence to the contrary, the city may rely on the county tax listing to determine the "owners" of potentially qualifying areas. The foregoing provisions concerning protests shall not be applicable to any amendment which initially zones property added to the territorial coverage of the ordinance as a result of annexation or otherwise, or to an amendment to an adopted (i) special use district, (ii) conditional use district, or (iii) conditional district if the amendment does not change the types of uses that are permitted within the district or increase the approved density for residential development, or increase the total approved size of nonresidential development, or reduce the size of any buffers or screening approved for the special use district, conditional use district, or conditional district.
- (b) Amendments in zoning ordinances shall not be applicable or enforceable without consent of the owner with regard to buildings and uses for which either (i) building permits have been issued pursuant to GS 160A-417 prior to the enactment of the ordinance making the change or changes so long as the permits remain valid and unexpired pursuant to GS 160A-418 and unrevoked pursuant to GS 160A-422 or (ii) a vested right has been established pursuant to GS 160A-385.1 and such vested right remains valid and unexpired pursuant to GS 160A-385.1

MECKLENBURG COUNTY, NC POLARIS 3G DEED REPORT

Date Printed: 05/20/2016

Buffer Distance: 110 Feet

No	Parcel ID	Owner Name	Mailing Address	Legal Description	Deed Book	Deed Page	Land Area
1	21329104	1. CROSS & CROWN LUTHERAN, CHURCH	1024 PINEVILLE MATTHEWS RD MATTHEWS NC 28105	M54-326	05965	525	8.356 AC
2	21329105	1. TRIPLE E ASSOCIATES,	C/O J RONALD MARTIN CPA 1850 E THIRD ST,STE 305 CHARLOTTE NC 28204	P1 M967-297	08139	584	3.892 AC
3	21329108	1. C/O REAL ESTATE DIVISION, 2.CITY OF CHARLOTTE,	600 E 4TH ST CHARLOTTE NC 28202	P3M967-297 9650 SARDIS	05584	942	4.85 AC
4	21329167	1. JONES, PAMELA S 2.JONES, DAVID E JR	329 SILVERSMITH LN CHARLOTTE NC 28270	L27 B3 M20-386	08275	989	1 LT (0.396 GIS Acres)
5	21329168	1. GILBERT, STEPHEN 2.GILBERT, LINDA ESTABROOK	335 SILVERSMITH LN CHARLOTTE NC 28270	L26B3M20-386 335 SILVERSMITH L	17348	502	1 LT (0.355 GIS Acres)
6	21329169	1. HATCHER, CAROL B 2.HATCHER, SAMUEL W	300 BRADWYCK CT MATTHEWS NC 28105	L25B3M20-386 343 SILVERSMITH L	04763	860	1 LT (0.353 GIS Acres)
7	21329170	1. SMITH, DIANA H 2.SMITH, MICHAEL A	349 SILVERSMITH LN CHARLOTTE NC 28270	L24 B3 M20-386	09375	280	1 LT (0.424 GIS Acres)
8	21329171	1. BRUMER, MATTHEW J 2.BRUMER, JENNIFER H	401 SILVERSMITH LN CHARLOTTE NC 28270	L23 B3 M20-386	07905	523	1 LT (0.622 GIS Acres)
9	21329172	1. BELLO, DAVID 2.MILLS, SUZANN YARBOROUGH	407 SILVERSMITH LN CHARLOTTE NC 28270	L22 B3 M20-386	25122	776	1 LT (0.490 GIS Acres)
10	21329189	1. TOWN OF MATTHEWS,	232 MATTHEWS STATION ST MATTHEWS NC 28105	P3 M967-297	06941	067	2.88 AC
11	22703225	1. BURNS, ROBERT L JR 2.BURNS, JUDITH L	102 LAKENHEATH LN MATTHEWS NC 28105	P1BA M1844-637	04792	518	0.52 AC
12	22703228	1. F&N PROPERTIES LLC,	PO BOX 3405 MATTHEWS NC 28106	P1 M1166-547	12016	031	0.867 AC
13	22703248	1. HORTON, SUZANNE C	221 PINEVILLE MATTHEWS ROAD MATTHEWS NC 28105	NA	14854	105	0.305 AC
14	22703250	1. CLARK, PATRICIA LAPENNA 2.CLARK, LARRY ALLEN	9905 DEVEREAUX DR MATTHEWS NC 28105	L1 M36-762	24310	565	0.527 AC
15	22703268	1. SMITH, HEATHER G	9906 DEVEREAUX DR MATTHEWS NC 28105	L18 M35-415	30642	761	0.414 AC

MECKLENBURG COUNTY, NC POLARIS 3G DEED REPORT

Date Printed: 05/20/2016

Buffer Distance: 110 Feet

No	Parcel ID	Owner Name	Mailing Address	Legal Description	Deed Book	Deed Page	Land Area
16	22703313	1. HAKAKAS, THEODORE A 2.HAKAKAS, ELIZABETH K	139 MATTHEWS TOWNSHIP PKWY MATTHEWS NC 28105	P2 M1166-547 100 COURTNEY LN	04234	779	1.23 AC
17	22703330	1. SARDIS PLANTATION, HOMEOWNERS ASSOC	PO BOX 35269 CHARLOTTE NC 28235	C/A M21-604	05452	076	1 LT (0.288 GIS Acres)

Consideration of Relevant Adopted Plans

Amendment to Cross and Crown Lutheran Church Rezoning Conditions

The Town of Matthews Land Use Plan, adopted December 10, 2012, contains recommendations for the NC 51 Corridor. Because NC 51 is a high volume roadway across Matthews, R/I zoning is appropriate for this area. The R/I Zoning District permits the telecommunications facilities in a stealth locations with site plan approval by the Board of Commissioners.

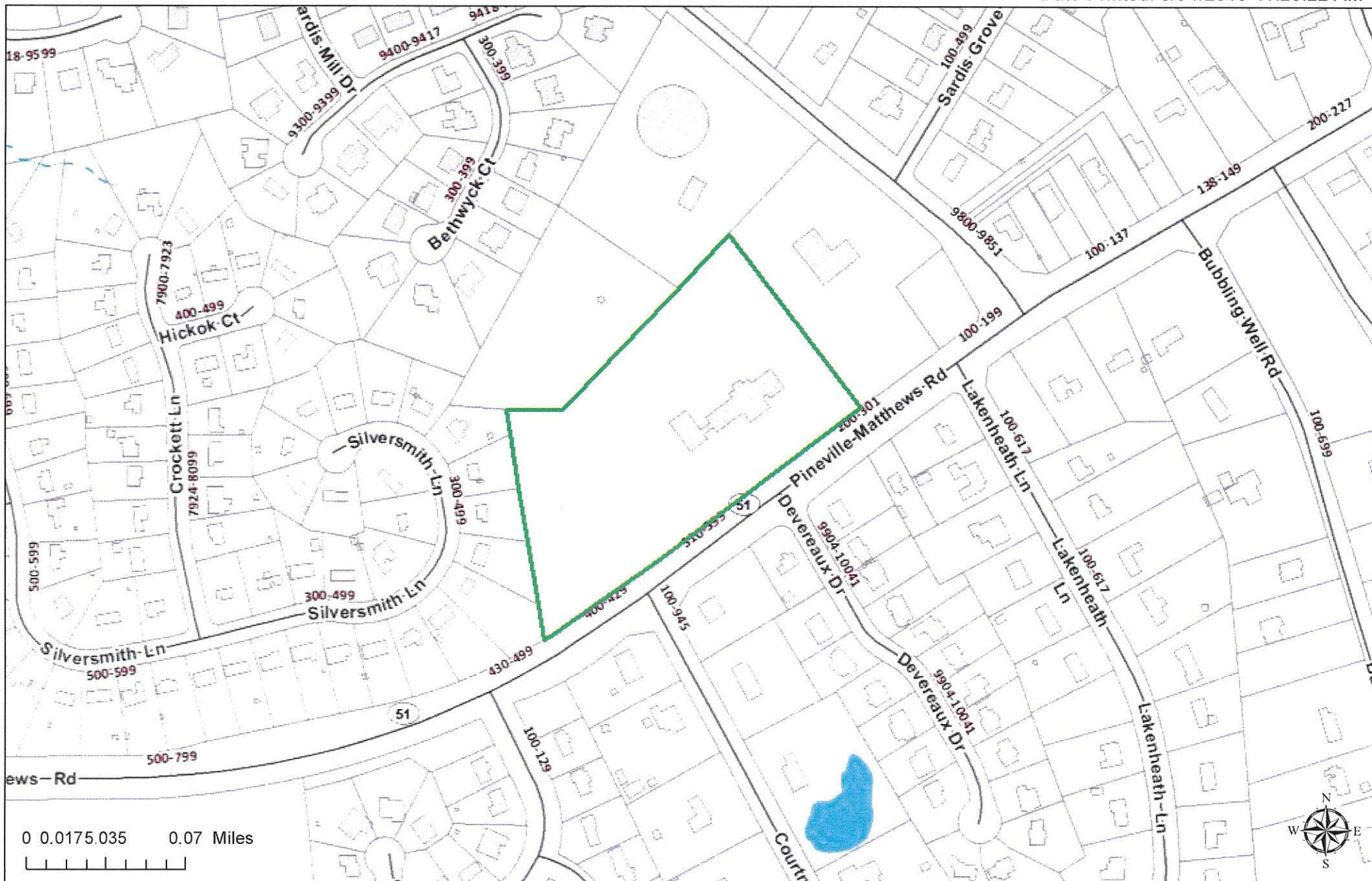
Polaris 3G Map – Mecklenburg County, North Carolina

300 Pineville Matthews Road

2016-646

6-1-2016

Date Printed: 5/31/2016 11:25:22 AM



This map or report is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map or report are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

PROJECT DESCRIPTION:

CONSTRUCTION OF TELECOMMUNICATIONS AND PUBLIC UTILITY FACILITY, CONSISTING OF A BELL TOWER, SPACE FOR CARRIER EQUIPMENT, AND A UTILITY BACKBOARD WITHIN A FENCED COMPOUND. NO WATER OR SEWER IS REQUIRED. THIS WILL BE AN UNMANNED FACILITY.

CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

1. 2009 INTERNATIONAL BUILDING CODE

2. 2014 NATIONAL ELECTRIC CODE

3. 2009 NFPA101 LIFE SAFETY CODE

4. 2009 IFC

5. AMERICAN CONCRETE INSTITUTE

6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION

7. MANUAL OF STEEL CONSTRUCTION, 13TH EDITION

8. ANSI/TIA/EIA-222-G

9. TIA 607

10. INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
11. IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST EDITION

12. TELECORDIA GR-1275

13. ANSI/T 311

14. UNIFORM MECHANICAL CODE

15. UNIFORM PLUMBING CODE

16. LOCAL BUILDING CODE

17. CITY/COUNTY ORDINANCES

18. STATE BUILDING CODE



US-NC-5027

LUTHERAN CHURCH

300 PINEVILLE MATTHEWS ROAD

MATTHEWS, NC 28105

120' BELL TOWER

APPROVAL BLOCK				
		APPROVED	APPROVED AS NOTED	DISAPPROVED/REVISE
VERTICAL BRIDGE	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SITE ACQUISITION	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONSTRUCTION MANAGER	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PERMITTING	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF ENGINEERING	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



INFINIGY

FROM ZERO TO INFINITY

the solutions are endless

2255 SEWELL MILL ROAD, SUITE 130

MARIETTA, GA 30062

Office # (678) 444-4463

1	ISSUED FOR REVIEW	CJW	06/01/16
0	ISSUED FOR REVIEW	CJW	05/16/16
No.	Submittal / Revision	App'd	Date

Drawn: MAJ Date: 05/16/16

Designed: MAJ Date: 05/16/16

Checked: MAJ Date: 05/16/16

Project Number

404-026

Project Title

US-NC-5027

LUTHERAN

CHURCH

300 PINEVILLE MATTHEWS RD

MATTHEWS, NC 28105



TITLE SHEET

Drawing Scale:

AS NOTED

Date:

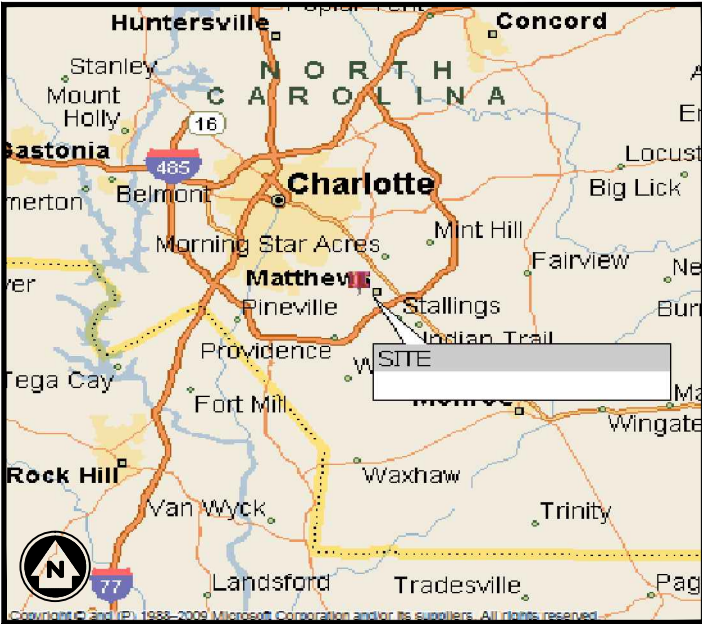
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UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

Drawing Number

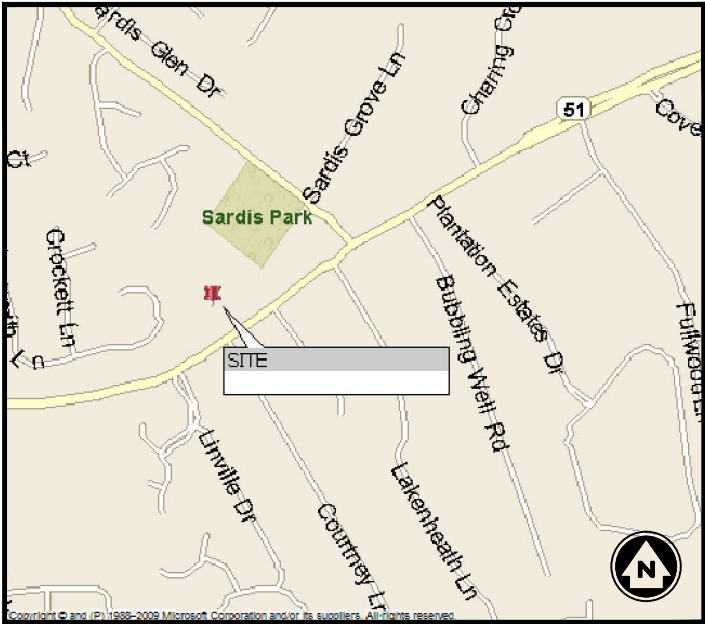
T1



VICINITY MAP

N.T.S

DRAWING INDEX			
DRWG. #	TITLE	REV.#	DATE
T1	TITLE SHEET	1	06/01/16
S1	SURVEY (BY OTHERS)	-	04/28/16
Z1	GENERAL NOTES & LEGEND	1	06/01/16
Z2	GENERAL NOTES	1	06/01/16
Z3	OVERALL SITE PLAN	1	06/01/16
Z3A	SITE PLAN	1	06/01/16
Z4	COMPOUND PLAN & TOWER ELEVATION	1	06/01/16
Z5	WALL DETAILS	1	06/01/16
Z6	DETAILS	1	06/01/16
Z7	DETAILS	1	06/01/16
Z8	DRAINAGE, GRADING & EROSION CONTROL PLAN	1	06/01/16
Z9	DRAINAGE, GRADING & EROSION CONTROL NOTES & DETAILS	1	06/01/16
Z10	TYPICAL SITE SIGNAGE	1	06/01/16
Z11	LANDSCAPE PLAN	1	06/01/16
Z12	LANDSCAPE DETAILS	1	06/01/16



LOCATION MAP

N.T.S

PROJECT INFORMATION	
SITE NAME:	LUTHERAN CHURCH
SITE NUMBER:	US-NC-5027
SITE ADDRESS:	300 PINEVILLE MATTHEWS ROAD MATTHEWS, NC 28105
TAX PIN #:	-
DEED REFERENCE:	DEED BOOK 5965, PAGE 525
PARCEL I.D. #:	21329104
ZONING CLASSIFICATION:	R/I (CD)
ZONING JURISDICTION:	CITY OF MATTHEWS
GROUND ELEVATION:	702.10' A.M.S.L.
STRUCTURE TYPE:	STEALTH (BELL TOWER)
CONSTRUCTION AREA:	±3,000 SQ. FT.
LEASE AREA:	1,200 SQ. FT.
LATITUDE (NAD 83):	35° 06' 59.74" N
LONGITUDE:	80° 44' 36.31" W

DIG ALERT:

CALL FOR UNDERGROUND UTILITIES PRIOR TO DIGGING:
811

EMERGENCY:

CALL 911

PROJECT DIRECTORY

PROPERTY OWNER:	CROSS & CROWN LUTHERAN CHURCH 300 PINEVILLE MATTHEWS ROAD MATTHEWS, NC 28105
APPLICANT:	VERTICAL BRIDGE 750 PARK OF COMMERCE DRIVE, SUITE 200 BOCA RATON, FL 33487
CONTACT:	CAROLYN GOULD PHONE: (770) 331-8376
ENGINEER:	INFINIGY 2255 SEWELL MILL ROAD SUITE 130 MARIETTA, GA 30062
CONTACT:	PETER RYNER PHONE: (678) 444-4463
POWER COMPANY:	DUKE ENERGY - (800) 777-9898
TELCO COMPANY:	WINDSTREAM - (336) 924-5101

GENERAL PROJECT NOTES

1. THE ENGINEER SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT ON A ONE TIME BASIS.
2. THE CONTRACTOR SHALL TOPSOIL AND SEED ALL DISTURBED AREAS.
3. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE–GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 811.
4. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR’S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
6. THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE ENGINEER.
7. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
9. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER SHALL BE REPLACED AT THE CONTRACTOR’S EXPENSE UNDER THE SUPERVISION OF THE STATE LICENSED LAND SURVEYOR.
10. IT IS THE CONTRACTOR’S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH ALL CONTRACTS FOR THE SITE.
11. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE JURISDICTIONS STATE CODE AND OSHA REGULATIONS FOR CONSTRUCTION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
13. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE ENGINEER AND THE UTILITY OWNER. NOTIFY THE ENGINEER AND THE UTILITY OWNER 24 HOURS BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
14. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
15. ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
16. CONTRACTOR TO GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE COMPOUND AND THE TOWER.
17. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED–UP AS–BUILT PLANS. AS–BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES, AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADMISSIONS TO THE SATISFACTION OF THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED. AS–BUILTS SHALL INCLUDE ALL POWER, TELEPHONE, GROUNDING, ETC.
18. TOWER FOOTING DIMENSIONS SHALL BE VERIFIED WITH THE TOWER MANUFACTURER AND THE TOWER PLANS.

GENERAL CONSTRUCTION NOTES

1. GENERAL
- A. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- B. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES.
- C. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL.
- D. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER’S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- E. PAINT ALL ANTENNAS, MOUNTING HARDWARE, CABLES, CABLE TRAYS, ETC. TO MATCH EXISTING STRUCTURE PER OWNER REQUIREMENTS. OWNER SHALL APPROVE COLOR.
- F. ALL DAMAGED, MARRED, SCRAPPED, ABRADED, ETC. AREAS OF EXISTING PAINT SHALL BE REPAIRED PER OWNERS REQUIREMENTS. OWNER SHALL APPROVE COLOR.

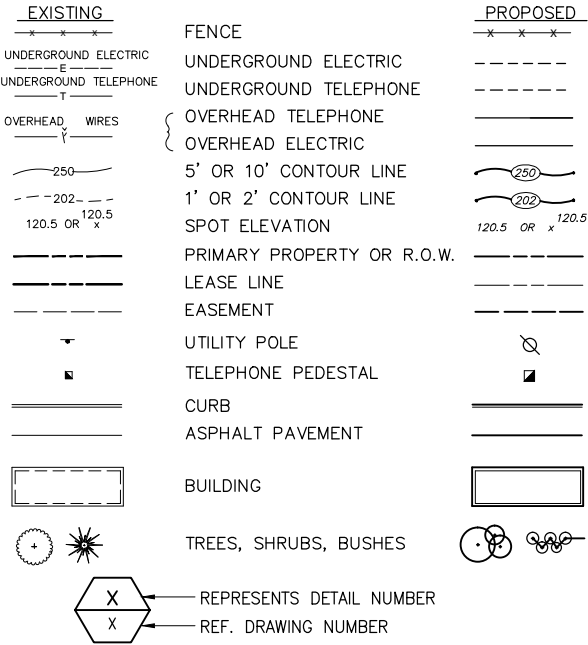
2. EXCAVATIONS/FOUNDATION
- A. FOUNDATION EXCAVATION SHALL BE HAND–TRIMMED TO REMOVE LOOSE MATERIALS.
- B. EXTERIOR FOUNDATION BACKFILL SHALL BE SELECTED GRANULAR FILL.
- C. ALL STRUCTURAL BACKFILL AND SUBBASE UNDER SLABS–ON–GRADE AND FOOTINGS SHALL BE “SW” OR BETTER PER ASTM D–2487 COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY PER ASTM D 698.
- D. DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
- E. SOIL BEARING SURFACES, PREVIOUSLY ACCEPTED BY GEOTECHNICAL ENGINEER, WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN OR DISTURBED SHALL BE REWORKED TO SATISFACTION OF GEOTECHNICAL ENGINEER.
- F. DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
- G. FOOTING EXCAVATIONS SHALL BE CUT NEAT.
3. CONCRETE
- A. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301, “SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS”; ACI 318, “BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE”;
- B. MIX DESIGN SHALL BE APPROVED BY OWNER’S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
- C. CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1.5%) WITH A MAXIMUM 4” SLUMP, AND HAVE A MINIMUM 28–DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
- D. MAXIMUM AGGREGATE SIZE SHALL BE 1”.
- E. THE FOLLOWING MATERIALS SHALL BE USED:
- PORTLAND CEMENT: ASTM C 150, TYPE I
- REINFORCEMENT: ASTM A 615, GRADE 60
- NORMAL WEIGHT AGGREGATE: ASTM C 33
- WATER: DRINKABLE
- ADMIXTURES: NON–CHLORIDE CONTAINING
- F. REINFORCING SHALL CONFORM TO ASTM A–615 WITH SUPPLEMENT. MINIMUM YIELD STRENGTH Fy= 60 KSI. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
- G. CONCRETE COVER AROUND REINFORCING BARS (U.N.O.) SHALL BE:
1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED EARTH.....3”
2. CONCRETE EXPOSED TO EARTH, WEATHER.....2”
3. SLABS.....3/4”
4. ALL OTHER CONCRETE.....1 1/2”
- H. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEET CLASS B, TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION, UNLESS NOTED OTHERWISE.

GENERAL CONSTRUCTION NOTES CONT.

- I. CURING COMPOUNDS SHALL CONFORM TO ASTM C–309.
- J. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI–301.
- K. DO NOT WELD OR TACKWELD REINFORCING STEEL.
- L. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, PIPING, WATERSTOPS, INSERTS, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- M. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
- N. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- O. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
- P. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- Q. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
- R. FOR COLD–WEATHER AND HOT–WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.
- S. PROVIDE A STEEL TROWEL FINISH TO THE SLAB.
4. ANTENNA SUPPORT BRACKET NOTES (IF APPLICABLE)
- A. DESIGN RESPONSIBILITY OF ANTENNA MOUNTING BRACKETS AND POLES AND ALL COMPONENTS THERE OF AND ATTACHMENT THERE TO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MFR SHALL PROVIDE TO THE ENGINEER FOR APPROVAL, DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA.
- B. BRACKETS SHALL BE DESIGNED TO SUPPORT CURRENT AND FUTURE PANEL ANTENNAS AND COAXIAL CABLES AS SHOWN.

5. STRUCTURAL STEEL NOTES
- A. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC “SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS”.
- B. STEEL ANGLES, BASE PLATES, BEARING PLATES AND MISC. FABRICATION SHALL BE MADE FROM STEEL MEETING THE REQUIREMENTS OF ASTM–A36 WITH A MINIMUM YIELD STRESS OF 36 KSI. ALL STEEL TUBES AND PIPES SHALL BE A500 STEEL MINIMUM.
- C. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE FINISHED AREAS SHALL BE REPAIRED BY FIELD TOUCH–UP PRIOR TO COMPLETION OF THE WORK.
- D. ALL EXTERIOR STRUCTURAL STEEL SHALL BE, WHEN DELIVERED, HOT–DIP GALVANIZED ACCORDING TO ASTM A123. TOUCH–UP FIELD WELDS AND ABRADED AREAS W/2 COATS OF GALVANIZED PAINT, ZRC COLD GALVANIZING COMPOUND OR APPROVED EQUAL.
- E. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- F. CONNECTIONS:
1. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
2. NON–STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8” DIA. GALVANIZED ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
- G. SAFETY NOTES:
1. THE CONTRACTOR WILL ADHERE TO ALL SAFETY REGULATIONS, LOCAL, STATE AND FEDERAL.
2. THE CONTRACTOR WILL CONDUCT DAILY SAFETY TAILGATE MEETINGS IN ADDITION TO WEEKLY SAFETY MEETINGS. THESE REPORTS WILL BE MADE AVAILABLE TO THE OWNER UPON REQUEST.
3. ALL WORKERS & VISITORS TO THE SITE SHALL WEAR HARD HATS & ANY OTHER SAFETY EQUIPMENT REQUIRED BY THE WORK BEING PERFORMED ON THE SITE.

CIVIL LEGEND



GROUNDING SYMBOLS

- ⊗ GROUND ROD
- ACCESS WELL
- ⊗ GROUND ROD WITH ACCESS
- G — #2 BTCW GROUNDING WIRE U.N.O
- ⬡ INDICATES CODED NOTE

ELECTRICAL SYMBOLS

- ⚡ RECEPTACLE
- BURIED RACEWAY
- ┌ TOWER LIGHT SYSTEM
- ⬡ INDICATES CODED NUMBER
- INDICATES DISCONNECT SWITCH

ABBREVIATIONS

- CIGBE COAX ISOLATED GROUND BAR EXTERNAL
- MIGB MASTER ISOLATED GROUND BAR
- SST SELF SUPPORTING TOWER
- GPS GLOBAL POSITIONING SYSTEM
- TYP. TYPICAL
- DWG. DRAWING
- BCW BARE COPPER WIRE
- BFG BELOW FINISH GRADE
- W/ WITH
- PVC POLYVINYL CHLORIDE
- CAB CABINET
- C CONDUIT
- SS STAINLESS STEEL
- G GROUND
- AWG AMERICAN WIRE GAUGE
- RGS RIGID GALVANIZED STEEL
- AHJ AUTHORITY HAVING JURISDICTION
- TTLNA TOWER TOP LOW NOISE AMPLIFIER
- UNO UNLESS NOTED OTHERWISE
- EMT ELECTRICAL METALLIC TUBING



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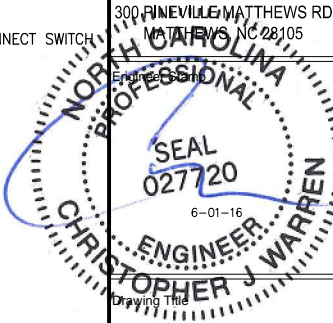
Project Number 404-026

Project Title

US-NC-5027

LUTHERAN
CHURCH

300 FINEVILLE MATTHEWS RD
NARIETTA, NC 28105



GENERAL NOTES
& LEGEND

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GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANY OR OTHER PUBLIC AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER’S RECOMMENDATIONS.
6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
8. TRANSMITTER EQUIPMENT AND ANTENNAS ARE DESIGNED TO MEET ANSI/EIA/TIA 222–G REQUIREMENTS.
9. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
10. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
11. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE THEM AND CONTACT THE APPLICANT AND OWNER’S REPRESENTATIVE.
12. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY TWICE A MONTH.
13. PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION TO THE EXISTING STRUCTURE, A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER’S AGENT TO CERTIFY THAT THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND OTHER APPURTENANCES.
14. PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
15. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
16. THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORM WATER RUNOFF, THEREFORE NO DRAINAGE STRUCTURES ARE PROPOSED.
17. NO SIGNIFICANT NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY.
18. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
19. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
20. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.

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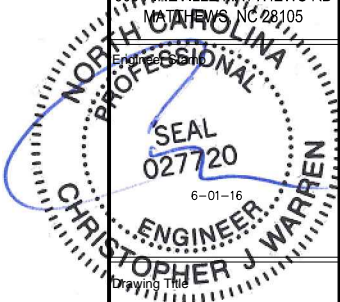
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Project Title

US-NC-5027
LUTHERAN
CHURCH

300 FINEVILLE MATTHEWS RD
MARIETTA, NC 28105



GENERAL NOTES

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OVERALL SITE PLAN

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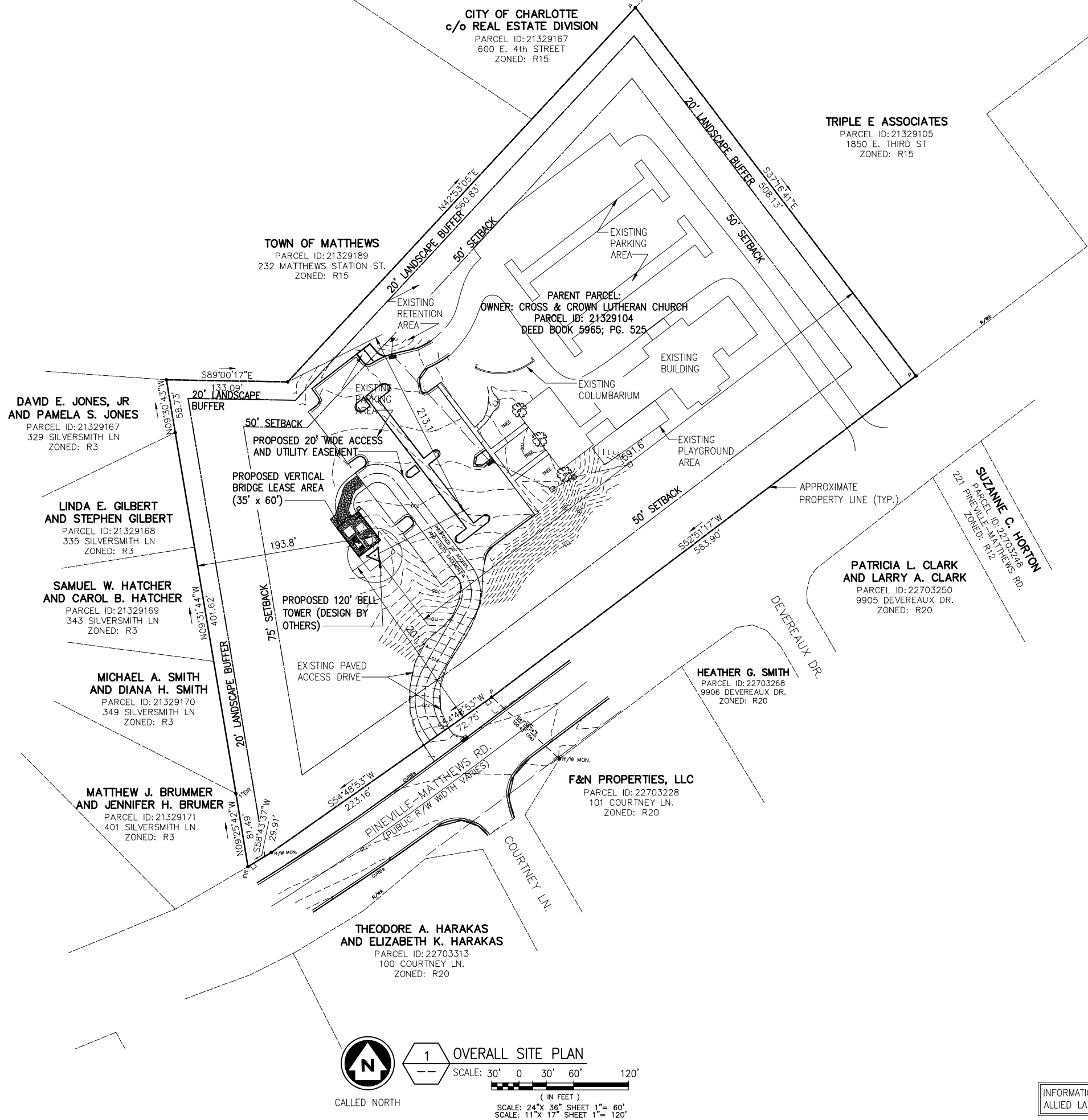
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Z3



CALLLED NORTH

1 OVERALL SITE PLAN
SCALE: 30' 0 30' 60' 120'
(IN FEET)
SCALE: 24"X 36" SHEET 1"= 60'
SCALE: 11"X 17" SHEET 1"= 120'

INFORMATION SHOWN BASED ON A FIELD SURVEY BY
ALLIED LAND SURVEYING DATED 04/28/16.

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SITE PLAN

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Z3A

APPROXIMATE
PROPERTY LINE (TYP.)

(2) PROPOSED
PARKING SPACES

EXISTING
SIDEWALK (TYP.)

EXISTING ASPHALT
PARKING AREA

(2) EXISTING
PARKING SPACES
TO BE REMOVED

PROPOSED 12' WIDE
GRAVEL ACCESS DRIVE

PROPOSED 5' WIDE
LANDSCAPE BUFFER
(REF. PAGE Z12)

PROPOSED GRAVELED
COMPOUND
(30' x 40') (REF. DWG. Z4)

PROPOSED 120' BELL
TOWER (DESIGN BY OTHERS)

PROPOSED VERTICAL BRIDGE
LEASE AREA (35' x 60')

EXISTING LANDSCAPED
MEDIAN

EXISTING
BUILDING

EXISTING
TREE (TYP.)

EXISTING PAVED
ACCESS DRIVE



CALLD NORTH

1 SITE PLAN
SCALE: 15' 0 15' 30' 60'

(IN FEET)
SCALE: 24"X 36" SHEET 1"= 30'
SCALE: 11"X 17" SHEET 1"= 60'

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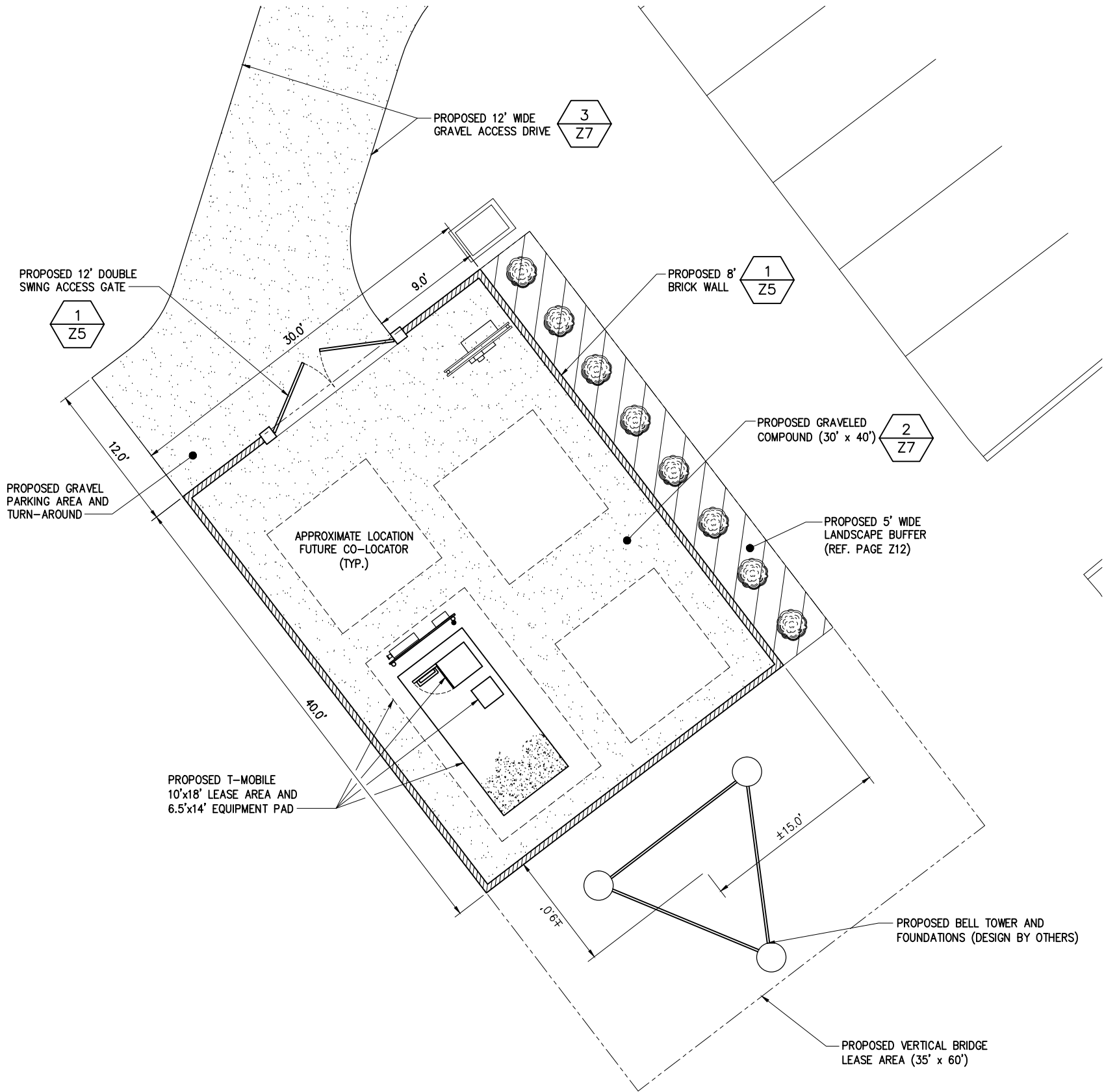
COMPOUND PLAN &
TOWER ELEVATION

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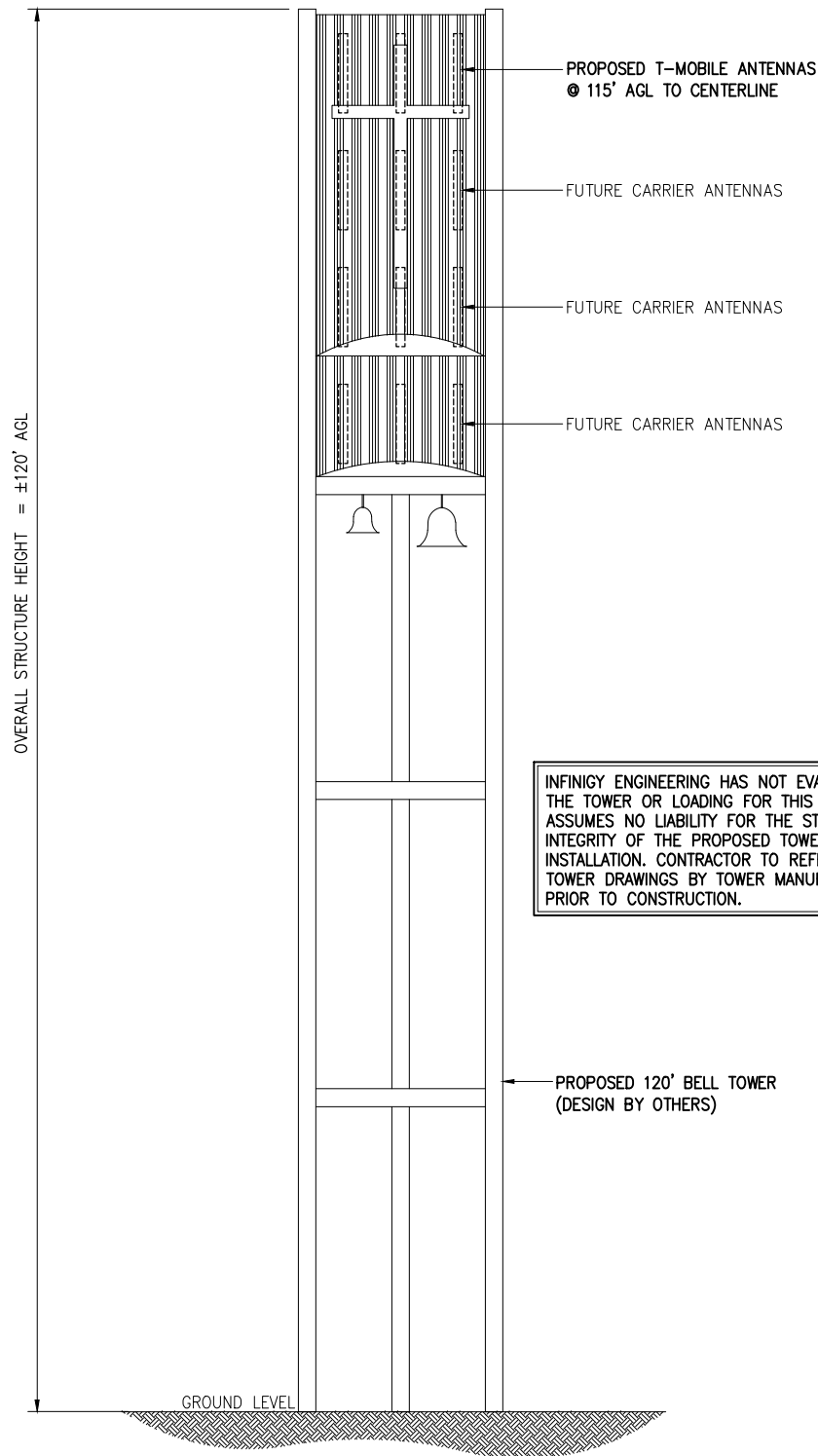
Drawing Number

Z4



COMPOUND PLAN

SCALE:
2.5' 0 2.5' 5' 10'
(IN FEET)
SCALE: 24"X 36" SHEET 1"= 5'
SCALE: 11"X 17" SHEET 1"= 10'



3 TOWER ELEVATION
NOT TO SCALE

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MARTIN, NC 28105

Professional Engineer
SEAL
027720
6-01-16
CHRISTOPHER J. WARREN
Drawing Title

FENCE DETAILS

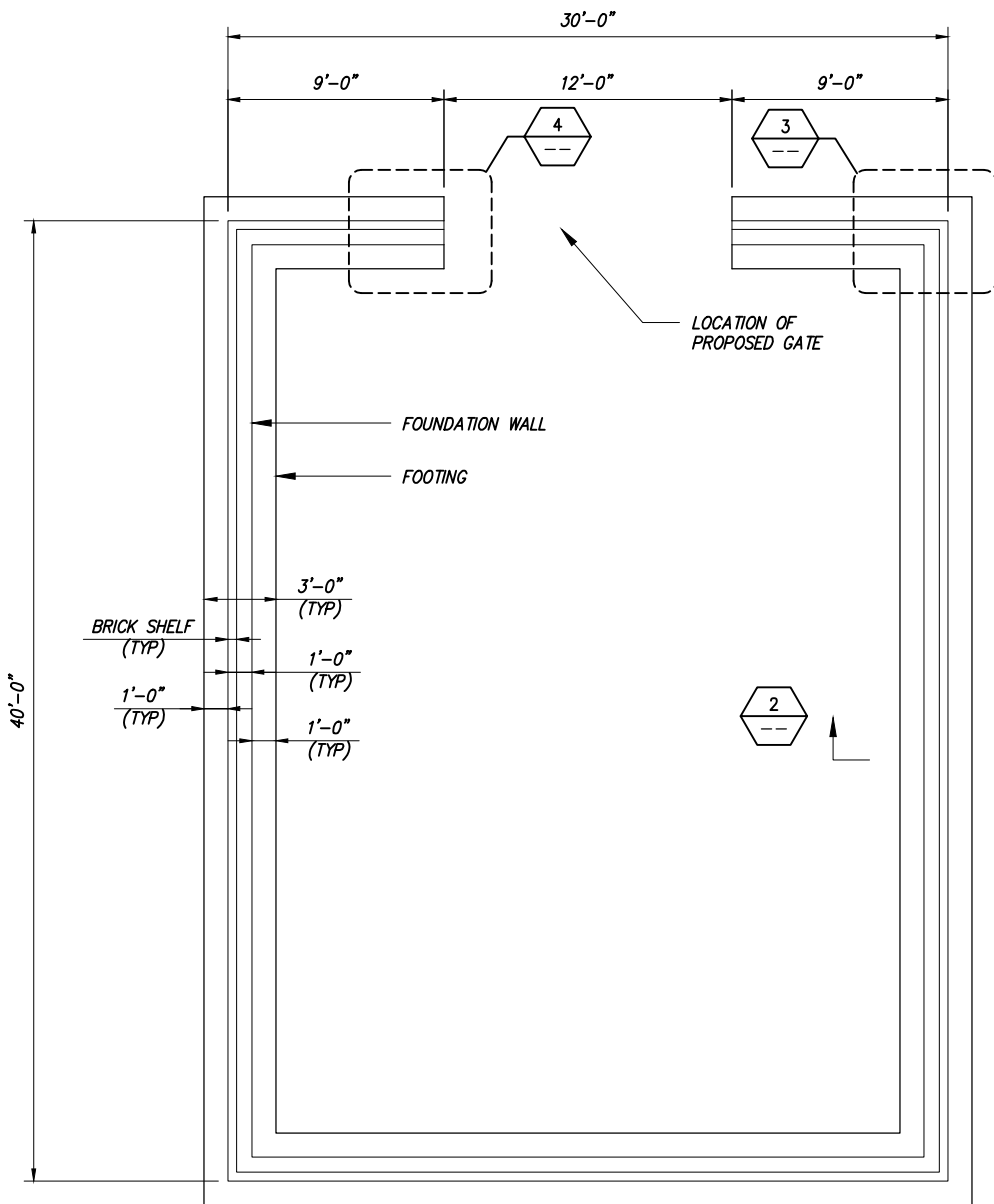
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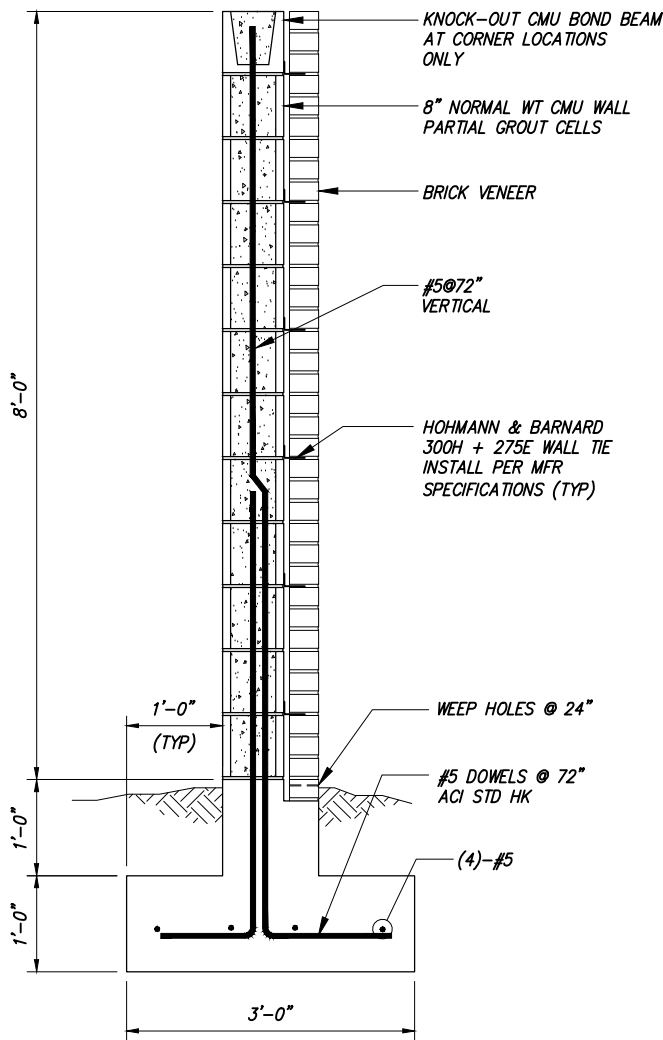
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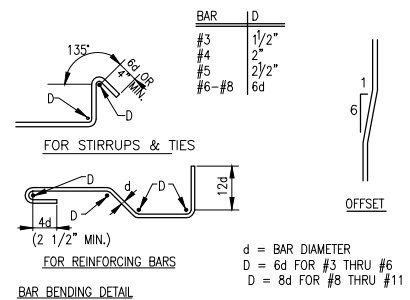
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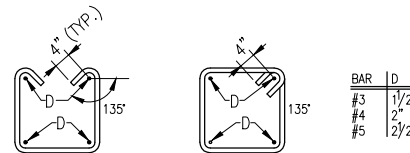
1 FOUNDATION PLAN
NOT TO SCALE



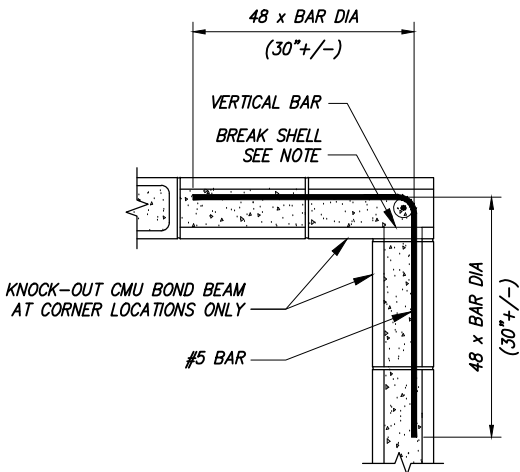
2 WALL SECTION
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3 TYP. BAR LAP SPLICE

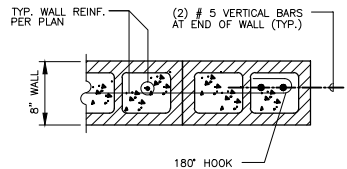


4 TYP. BAR BEND RADIUS



NOTE: BLOCK LAYOUT SHOWN IS DIAGRAMMATIC. ACTUAL CONDITION WILL VARY PER RUNNING BOND PATTERN, USE APPROPRIATE UNITS OR BREAK CMU SHELL AS REQUIRED FOR REINFORCING PLACEMENT AND FLOW OF GROUT.

3 CMU AT CORNER
NOT TO SCALE



4 CMU AT END
NOT TO SCALE

5 TYPICAL CMU DETAILS
NOT TO SCALE

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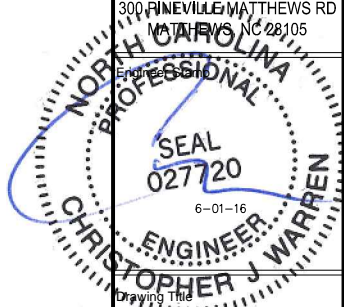
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300 FINEVILLE MATTHEWS RD
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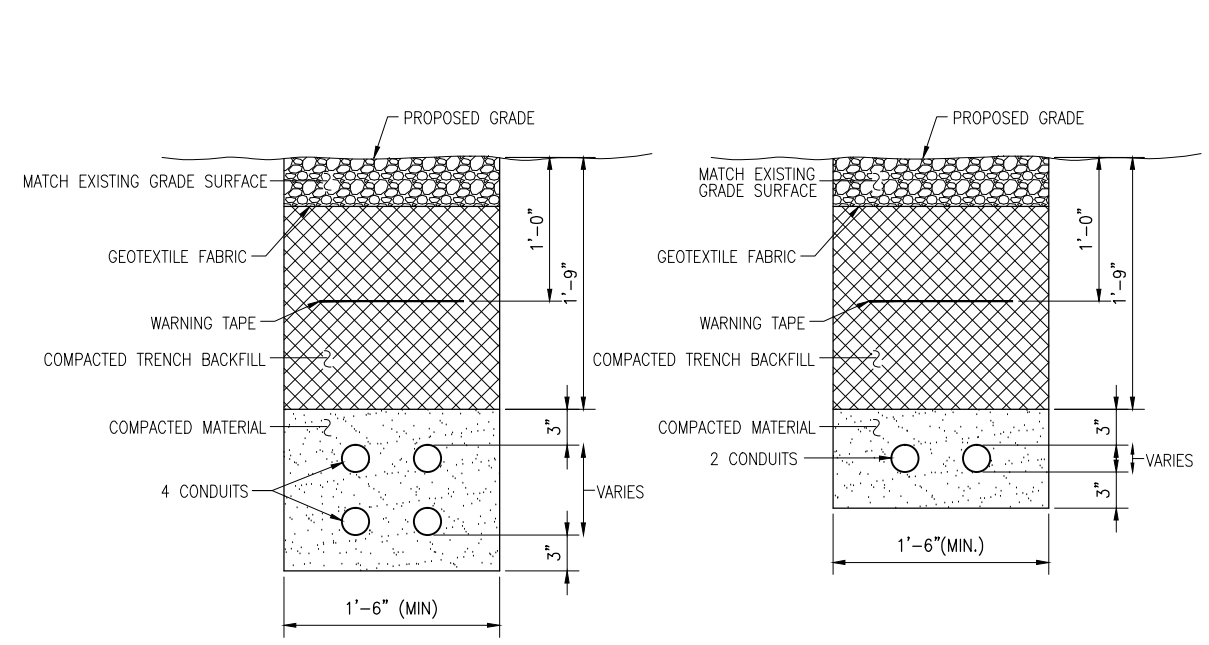
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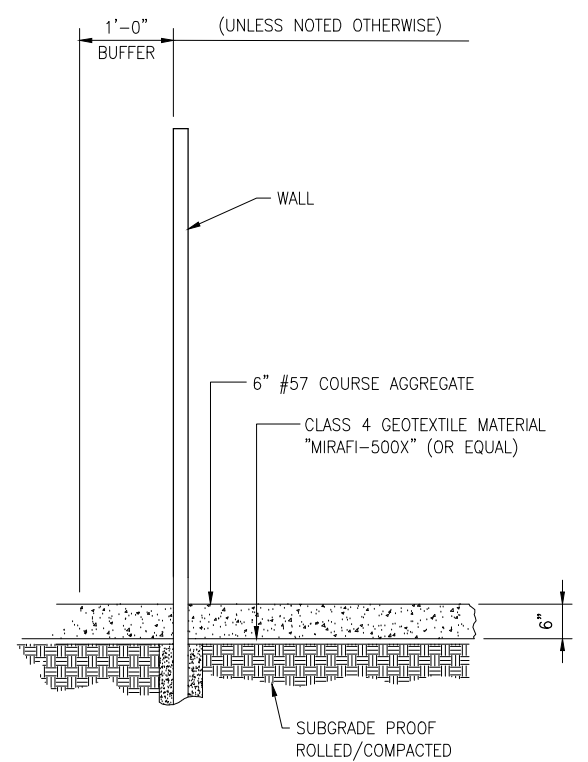
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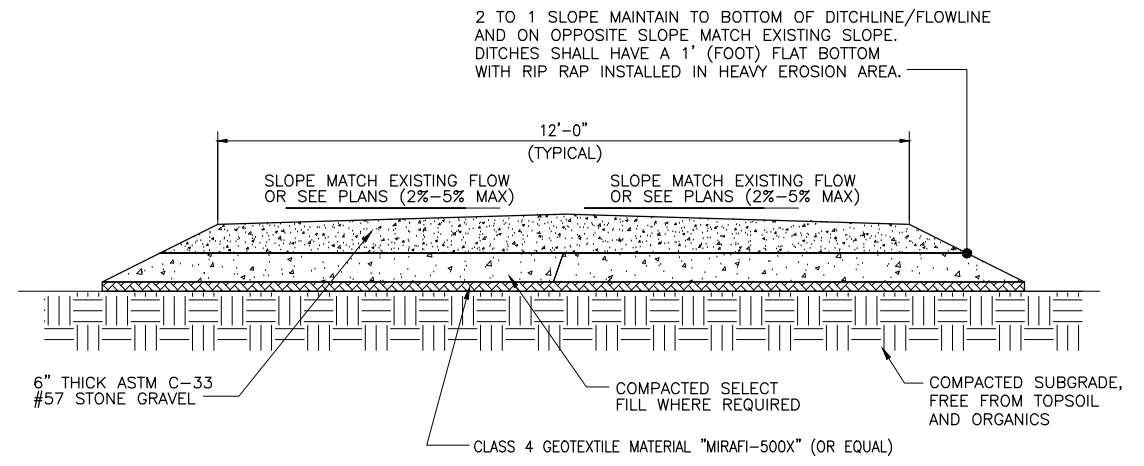
Z6



1 ELECTRICAL / UTILITY COMMUNICATION TRENCH SECTIONS
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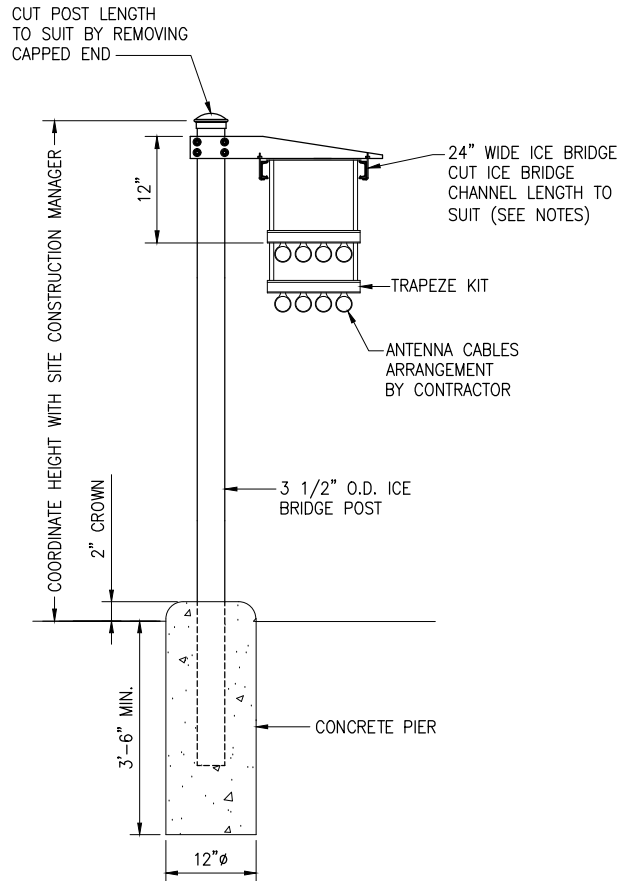


2 SITE COMPOUND SURFACING DETAIL
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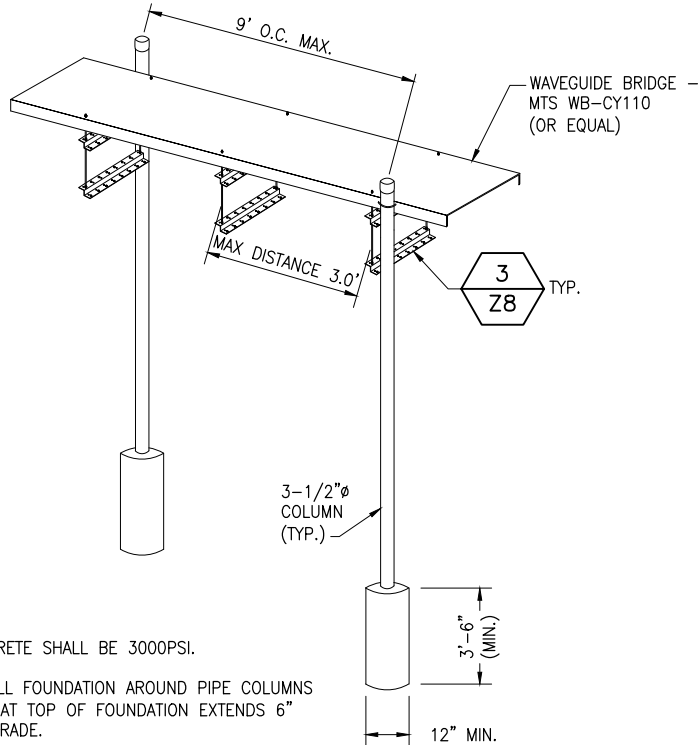


- NOTES:
- USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.
 - AGGREGATE IS BASED ON STANDARD AASHTO.
 - 2" CROWN IN CENTER OF ACCESS, UNLESS IN CURVES, THEN ACCESS SHOULD BE SLOPED TO INSIDE OF TURN / CURVE
 - PIPE SHALL BE AT A MINIMUM OF 4' LONGER THEN ACCESS ROAD WIDTH ON EACH SIDE FOR PROPER SHOULDERING.
 - ALL CROSSDRAINS SHALL BE INSTALLED ON A 45° ANGLE WITH THE FALL OF THE GRADE.

3 DRIVEWAY SECTION (GRAVEL)
NOT TO SCALE



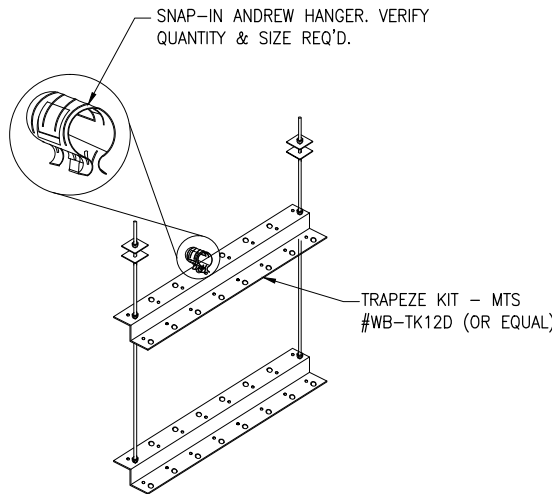
1 ICE BRIDGE SUPPORT POST FOUNDATION
-- NOT TO SCALE



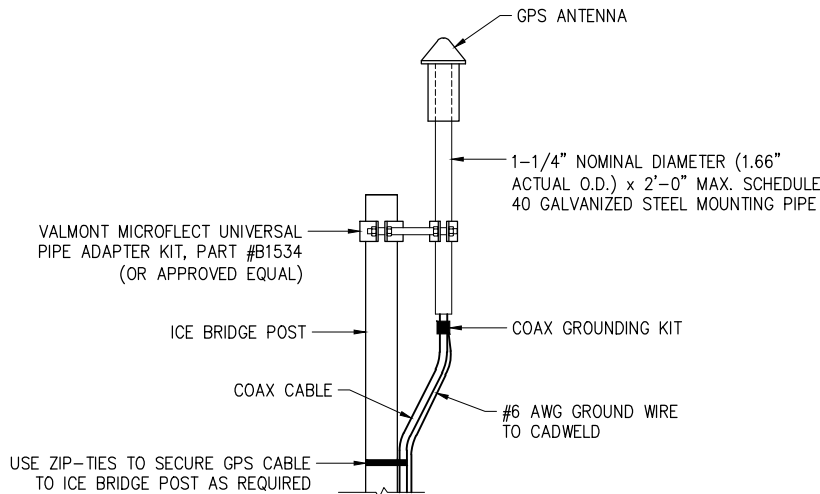
- NOTE:
1. CONCRETE SHALL BE 3000PSI.
 2. INSTALL FOUNDATION AROUND PIPE COLUMNS SUCH THAT TOP OF FOUNDATION EXTENDS 6" ABOVE GRADE.

2 ICE BRIDGE DETAIL
-- NOT TO SCALE

PARTS LIST (PER 10' SECTION)		
ITEM	PART NO.	DESCRIPTION
1	MT-357-12	TRAPEZE KIT (NOTE 3)
2	MF-130	3-1/2" OD X 160" GALV PLAIN
3	PC-034	3-1/2" GALV PIPE CAP
4	HHD12-K	CANTILEVER W/HARDWARE
5	WB-CY110	SAFETY GRATED WAVEGUIDE BRIDGE 12" x 10'



3 TRAPEZE KIT DETAIL
-- NOT TO SCALE

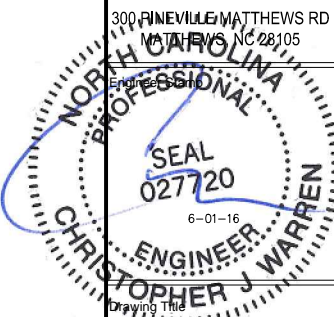


- NOTES:
1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
 2. ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.

4 GPS MOUNTING DETAIL
-- NOT TO SCALE

NOTES:

1. WHEN USING COMPONENTS AS SHOWN IN STANDARD DETAILS, MAXIMUM ALLOWABLE SPAN BETWEEN SUPPORTS ON A CONTINUOUS SINGLE SECTION OF BRIDGE CHANNEL SHALL BE 9 FEET FOR 10 FEET BRIDGE CHANNEL.
2. WHEN USING COMPONENTS FOR SPLICING BRIDGE CHANNEL SECTIONS, THE SPLICE SHOULD BE PROVIDED AT THE SUPPORT, IF POSSIBLE, OR AT A MAXIMUM OF 2 FEET FROM THE SUPPORT.
3. WHEN USING COMPONENTS, SUPPORT SHOULD BE PROVIDED AS CLOSE AS POSSIBLE TO THE ENDS OF ICE BRIDGES, WITH A MAXIMUM CANTILVER DISTANCE OF 2 FEET FROM THE SUPPORT TO THE FREE END OF THE ICE BRIDGE.
4. CUT BRIDGE CHANNEL SECTIONS SHALL HAVE RAW EDGES TREATED WITH A MATERIAL TO RESTORE THESE EDGES TO THE ORIGINAL CHANNEL, OR EQUIVALENT, FINISH.
5. ICE BRIDGES MAY BE CONSTRUCTED WITH COMPONENTS FROM OTHER MANUFACTURERS, PROVIDED THE MANUFACTURER'S INSTALLATION GUIDELINES ARE FOLLOWED.
6. DEVIATIONS FROM STANDARDS FOR COMPONENT INSTALLATIONS ARE PERMITTED WITH THE RESPECTIVE MANUFACTURER'S APPROVAL.
7. DEVIATIONS FROM ICE BRIDGE FOUNDATIONS REQUIRE ENGINEERING APPROVAL.
8. THE DESIGN IS BASED ON ASCE 7-98, 3 SECOND GUST WIND SPEED OF 110 MPH, EXPOSURE C, ELEVATION AT GRADE.



DETAILS

Drawing Scale:
AS NOTED
Date:
05/16/16

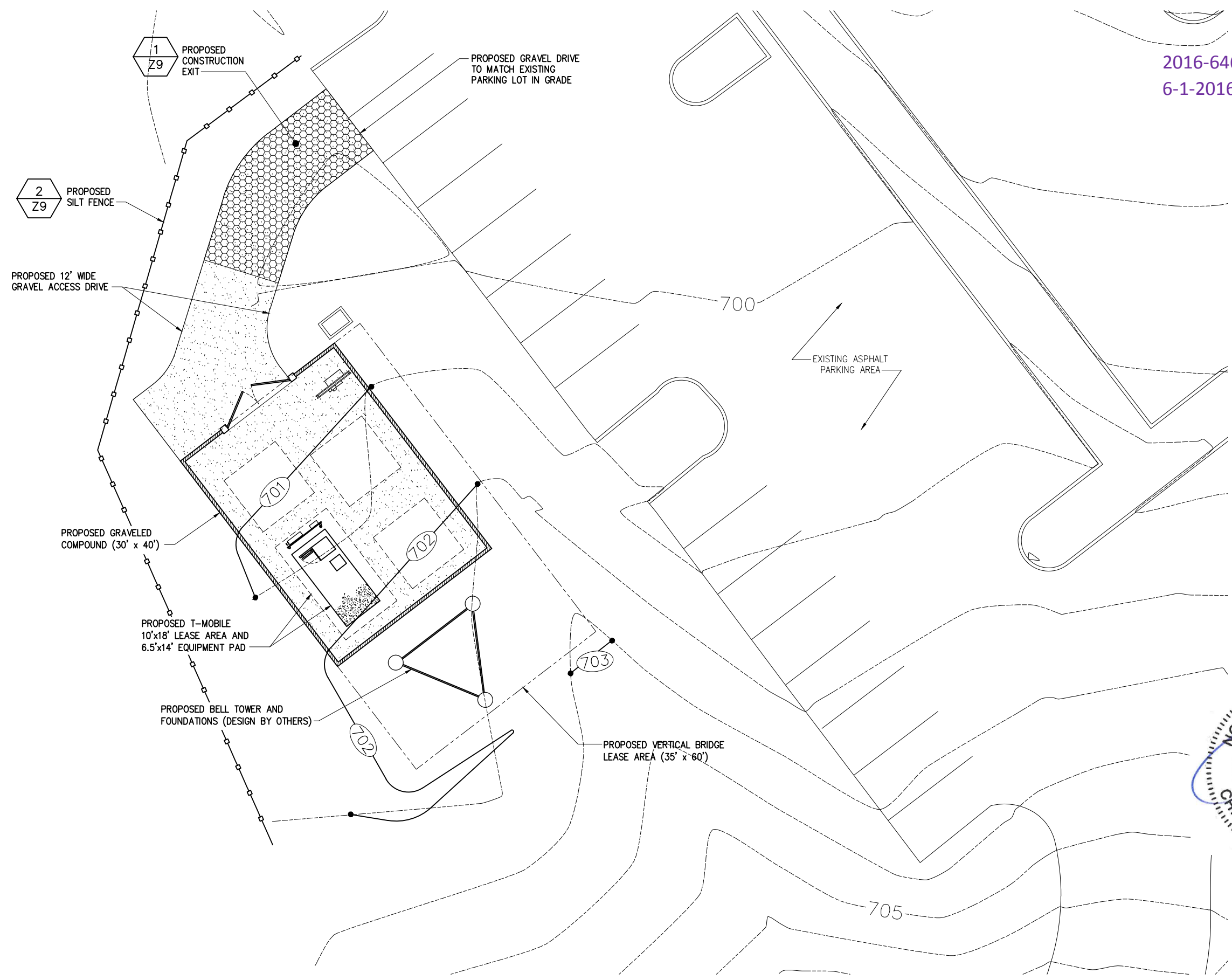
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Drawing Number

Z7

INFINIGY8
FROM ZERO TO INFINIGY
the solutions are endless
2255 SEVELL MILL ROAD, SUITE 130
MARIETTA, GA 30062
Office # (678) 444-4463



2016-646
6-1-2016



INFINIGY8
FROM ZERO TO INFINITY
the solutions are endless

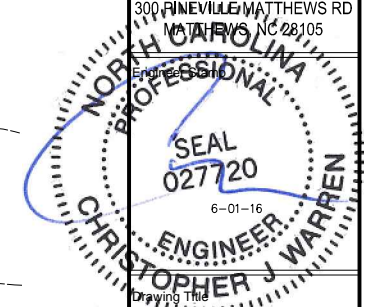
2255 SEVELL MILL ROAD, SUITE 130
MARIETTA, GA 30062
Office # (678) 444-4463

1	ISSUED FOR REVIEW	CJW	06/01/16
0	ISSUED FOR REVIEW	CJW	05/16/16
No.	Submittal / Revision	App'd	Date

Drawn: M.J. Date: 05/16/16
Designed: M.J. Date: 05/16/16
Checked: M.J. Date: 05/16/16

Project Number
404-026

Project Title
US-NC-5027
LUTHERAN CHURCH
300 FINEVILLE MATTHEWS RD
MATTHEWS, NC 28105




DRAINAGE, GRADING
& EROSION
CONTROL PLAN

Drawing Scale:
AS NOTED
Date:
05/16/16
ZD

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Z8



1 CALLED NORTH

1 GRADING, EROSION, & SEDIMENT CONTROL PLAN

SCALE: 4' 0 4' 8' 16'

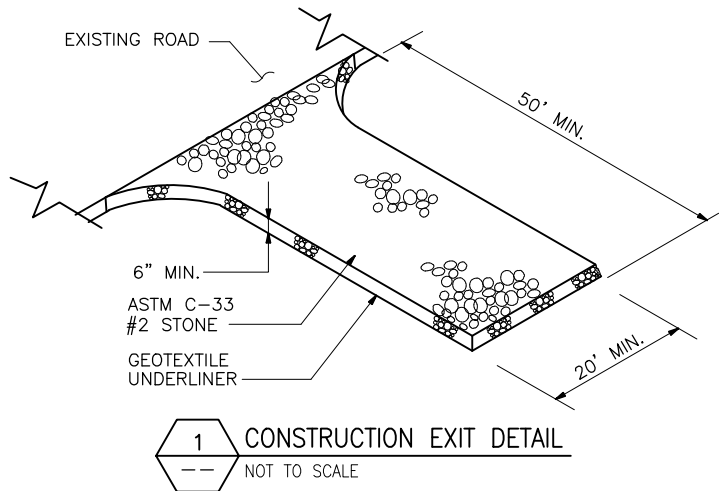
(IN FEET)

SCALE: 24"X 36" SHEET 1"= 8'

SCALE: 11"X 17" SHEET 1"= 16'

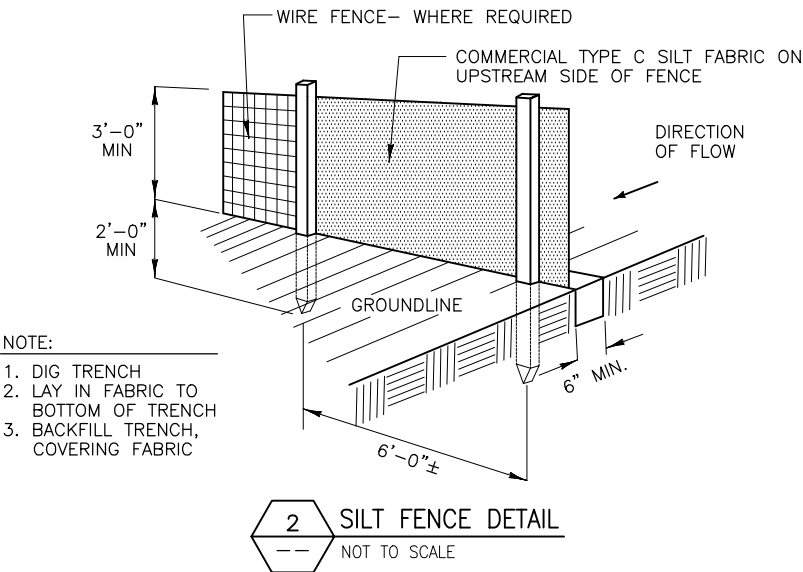
GRADING & EXCAVATING NOTES:

- ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
- CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
- ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
- AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
- USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND
—BE FREE FROM CLODS OR STONES OVER 2–1/2” MAXIMUM DIMENSIONS
—BE PLACED IN 6” LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR
- REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE–CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
- PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR’S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
- REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER’S APPROVAL.
- DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR’S NEGLIGENCE SHALL BE REPAIRED/REPLACED TO OWNER’S SATISFACTION AT CONTRACTOR’S EXPENSE.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER’S OPERATIONS.
- ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
- ALL CUT AND FILL SLOPES SHALL BE MAXIMUM 2 HORIZONTAL TO 1 VERTICAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING SITE VEHICLE TRAFFIC AS TO NOT ALLOW VEHICLES LEAVING THE SITE TO TRACK MUD ONTO PUBLIC STREETS. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING PUBLIC STREETS DUE TO MUDDY VEHICLES LEAVING THE SITE.



GENERAL EROSION & SEDIMENT CONTROL NOTES:

- THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND DETAILS AS SHOWN HEREIN AND STIPULATED WITHIN STATE STANDARDS SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE SEDIMENT LEAVING THE SITE.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR’S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR THE LOCAL JURISDICTION INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12” OF THE TOP OF THE SILT FENCE.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
- SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
- ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
- CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND–DISTURBING ACTIVITIES.



SEEDING GUIDELINES:

FINAL STABILIZATION OF ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, SHALL BE LOAMED AND SEEDED. LOAM SHALL BE PLACED AT A MINIMUM COMPACTED DEPTH OF 4”. RECOMMENDED SEEDING DATES FOR PERMANENT VEGETATION SHALL BE BETWEEN JUNE 15 THROUGH AUGUST 1 AND SEPTEMBER 15 THROUGH OCTOBER 15. TEMPORARY VEGETATIVE MEASURES SHALL CONSIST OF AN ANNUAL OR PERENNIAL RYE GRASS WITH RECOMMENDED SEEDING DATES BEING FROM JUNE 1 THROUGH AUGUST 15 AND SEPTEMBER 30 THROUGH NOVEMBER 30.

EVALUATE PROPOSED COVER MATERIAL

BEFORE SPREADING COVER MATERIAL OVER THE DESIGNATED AREA, OBTAIN A REPRESENTATIVE SOIL SAMPLE AND SUBMIT TO A REPUTABLE SOIL TESTING LABORATORY FOR CHEMICAL AND PHYSICAL ANALYSIS. THE PRELIMINARY TEST IS NECESSARY TO DETERMINE THE REQUIRED INORGANIC AND/OR ORGANIC AMENDMENTS THAT ARE NEEDED TO ASSIST IN ESTABLISHING THE SEED MIXTURE IN AN ENVIRONMENTALLY AND ECONOMICALLY SOUND MANNER. THE RESULTS WILL GIVE THE COVER MATERIAL CHARACTERISTICS SUCH AS pH AND FERTILIZATION NEEDS. THESE RESULTS SHALL BE KEPT ON–SITE B THE CONTRACTOR AND AVAILABLE FOR REVIEW BY THE COUNTY.

SEED BED PREPARATION

PROPOSED COVER MATERIAL SHOULD BE SPREAD EVENLY OVER THE SITE AREA IN A MINIMUM 4” LIFT VIA BULLDOZER/BUCKET LOADER. USING THE INFORMATION FROM THE SOIL ANALYSIS, CAREFULLY CALCULATE THE QUANTITIES OF LIMESTONE AND PRE–PLANT FERTILIZER NEEDED PRIOR TO APPLYING. PRE–PLANT AMENDMENTS CAN BE APPLIED WITH A BROADCAST AND/OR DROP SEEDER AND INCORPORATED WITH AN OFFSET DISK, YORK RAKE, AND/OR HAND RAKE. AFTER INCORPORATION THE PRE–PLANT SOIL AMENDMENTS, THE SEED BED SHOULD BE SMOOTH AND FIRM PRIOR TO SEEDING. THE FOLLOWING SEED MIXTURES SHALL BE USED AS NOTED:

SEED MIXTURE

SPECIES/VARIETY	LBS/ACRE
CREeping RED FESCUE	20
KENTUCKY BLUEGRASS	20
PERENNIAL RYEGRASS	5

SEED TIME AND METHOD

THE PREFERRED TIME FOR SEEDING THE COOL SEASON MIXTURE IS LATE SUMMER. SOIL AND AIR TEMPERATURES ARE IDEAL FOR SEED GERMINATION AND SEEDING GROWTH. WEED COMPETITION IS REDUCED BECAUSE SEEDS OF MANY WEED SPECIES GERMINATE EARLIER IN THE GROWING SEASON. ADDITIONALLY, HERBICIDE USE IS GREATLY REDUCED. HOWEVER, SEEDING MAY BE DONE AT ANY OF THE ABOVE NOTED TIMES.

MULCHING

NEWLY SEEDED AREAS SHOULD BE MULCHED TO INSURE ADEQUATE MOISTURE FOR SUCCESSFUL TURF ESTABLISHMENT AND TO PROTECT AGAINST SURFACE MOVEMENT OF SEDIMENT–BOUND AGROCHEMICALS AND SOIL EROSION. IF MULCHING PROCEDURES ARE NOT SPECIFIED ON PLANS, APPLY GOOD QUALITY STRAW OR HAY AT A RATE OF 2 BALES/1000 SQ. FT. OTHER COMMERCIALY AVAILABLE MULCHES CAN BE USED.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY POSTS: STEEL EITHER T OR U TYPE.
FENCE: WOVEN WIRE, 14 GA. 6” MAX. MESH OPENING.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24” AT TOP AND MID SECTION.
FILTER CLOTH: FILTER X, MIRAFI 100X’ STABILINKA T140N OR APPROVED EQUAL.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER–LAPPED BY SIX INCHES AND FOLDED.
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE OR APPROVED EQUAL.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN “BULGES” DEVELOP IN THE SILT FENCE.
- ALL SILT FENCE MATERIALS MUST BE LISTED ON THE CURRENT STATES. D.O.T. QUALIFIED PRODUCTS LIST.

1	ISSUED FOR REVIEW	CJW	06/01/16
0	ISSUED FOR REVIEW	CJW	05/16/16
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Drawn: M&J Date: 05/16/16

Designed: M&J Date: 05/16/16

Checked: M&J Date: 05/16/16

Project Number
404-026

Project Title

US-NC-5027

LUTHERAN
CHURCH

300 FINEVILLE MATTHEWS RD
MARTIN, NC 28105

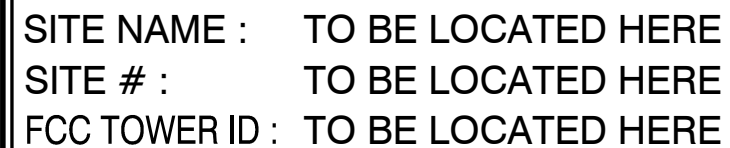


DRAINAGE, GRADING &
EROSION CONTROL
NOTES & DETAILS

Drawing Scale:
AS NOTED
Date:
05/16/16
ZD

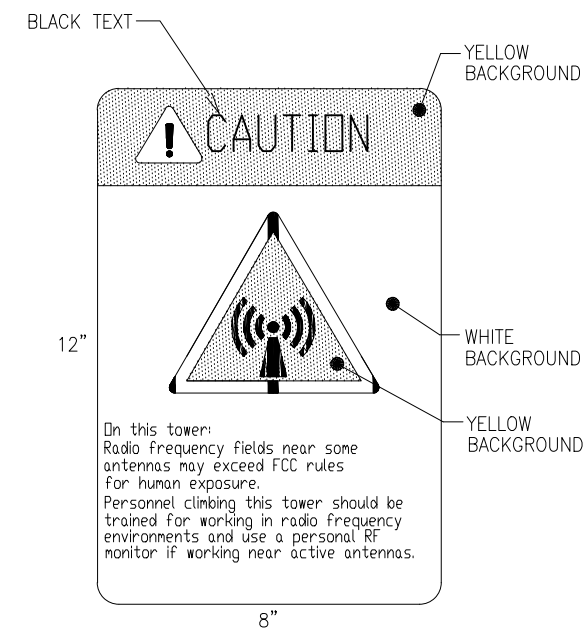
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Drawing Number



WWW.VERICALBRIDGE.COM
SALES@VERTICALBRIDGE.COM
OPERATIONS@VERTICALBRIDGE.COM

NO TRESPASSING



RF EXPOSURE CAUTION SIGN

WHITE/YELLOW BACKGROUND, BLACK LETTERING
MOUNTING LOCATION: BASE OF TOWER
QUANTITY: 1

SIGNAGE NOTES:

2016-646

6-1-2016

1. SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL & PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
2. SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE & FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HDG RINGS (FENCE) OR BRACKETS; WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
3. ADDITIONAL E911 ADDRESS & FCC REGISTRATION SIGNS SHALL BE MOUNTED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF.
4. CARRIER SITE # & EMERGENCY CONTACT SIGNS SHALL BE MOUNTED ON THE EQUIPMENT CABINET WITH PERMANENT SET ADHESIVE. TWO SIDED TAPE SHALL BE UTILIZED AT EACH CORNER ON THE BACKSIDE TO AID PLACEMENT UNTIL THE ADHESIVE SETS.



INFINIGY2
FROM ZERO TO INFINITY
the solutions are endless

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Drawn: MJJ Date: 05/16/16
Designed: MJJ Date: 05/16/16
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Project Number 404-026

Project Title

US-NC-5027

LUTHERAN
CHURCH

300 PINEVILLE MATTHEWS RD
MATTHEWS, NC 28105

Professional Engineer Seal for Christopher J. Warren, State of Tennessee, License No. 027720, expires 6-01-16.

TYPICAL SITE SIGNAGE

Drawing Scale:
AS NOTED

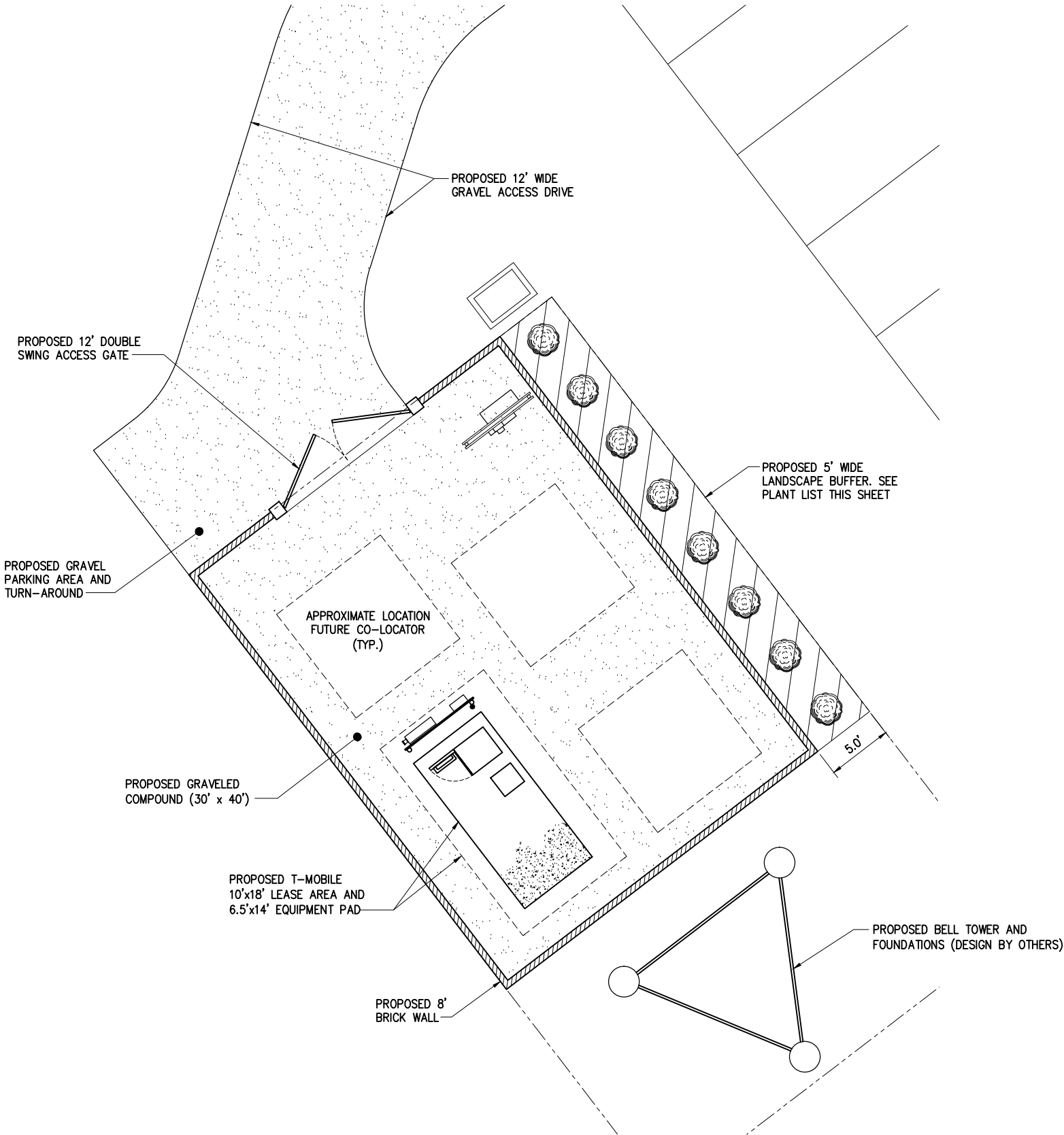
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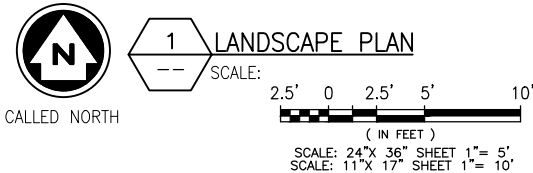
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Z10



PLANT LIST				
SYMBOL	QUANTITY	COMMON NAME	BOTANICAL	MIN. TREE SIZE
	8	BURFORD HOLLY	Ilex cornuta 'Burfordii'	18"

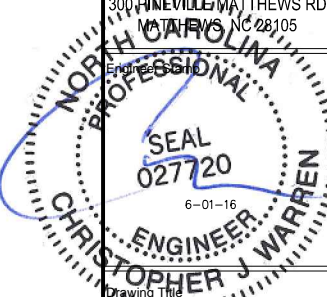


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US-NC-5027
LUTHERAN
CHURCH
300 FINEVILLE MATTHEWS RD
MARTIN, NC 28105

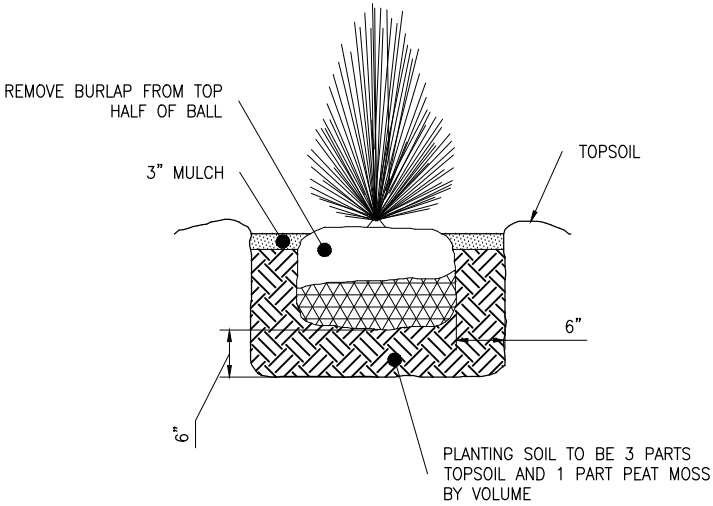


Drawing Title
LANDSCAPE
PLAN

Drawing Scale:
AS NOTED
Date:
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Drawing Number
Z11



1 SHRUB PLANTING DETAIL
NOT TO SCALE

LANDSCAPE NOTES

A. PROJECT INCLUDES

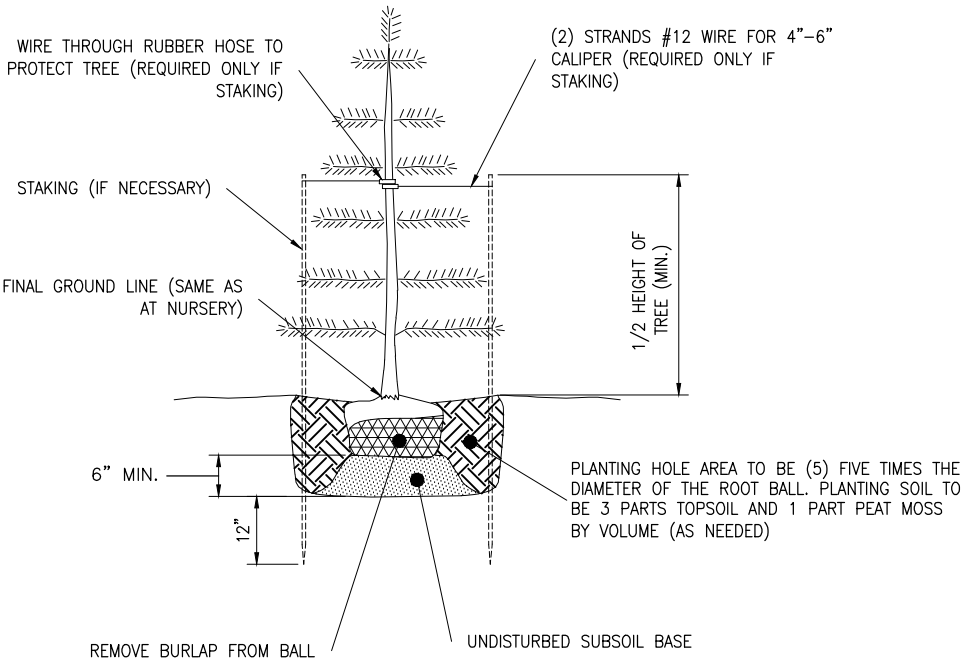
- FURNISH, INSTALL, AND MAINTAIN LANDSCAPE WORK AS SHOWN ON THESE CONTRACT DRAWINGS OR AS IDENTIFIED HEREIN.
 - TREES, SHRUBS AND GROUND COVER.
 - LAWNS.
 - TOPSOIL AND SOIL AMENDMENTS.
 - INITIAL MAINTENANCE OF INSTALLED LANDSCAPE MATERIAL.
 - PRUNING AND RELOCATION OF EXISTING PLANT MATERIALS.
 - RECONDITIONING EXISTING LAWNS AFFECTED BY CONSTRUCTION ACTIVITIES.

B. QUALITY ASSURANCE

- PLANTS AND TREES: BALLED AND BURLAPED PLANTS AND TREES SHALL BE GRADED TO AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1.
- TESTING: LABORATORY TESTING OF EXISTING SOILS AND FILL MATERIALS FOR SUITABLE SOIL AMENDMENTS AND FERTILIZER SHALL BE PERFORMED BY THE LANDSCAPE CONTRACTOR.
- CONTRACTOR SHALL PREPARE THE SURFACE OF DISTURBED AREAS PRIOR TO SEEDING.
- FERTILIZER AND SEED SHALL BE APPLIED AT UNIFORM RATES AS DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL WATER SEEDED AREAS AS OFTEN AS REQUIRED TO OBTAIN GERMINATION AND TO OBTAIN AND MAINTAIN SATISFACTORY GROWTH.
- THE STAND OF VEGETATIVE COVER RESULTING FROM SEEDING SHALL NOT BE CONSIDERED SATISFACTORY UNTIL ACCEPTED BY THE ENGINEER. IF AREAS ARE DETERMINED TO BE UNACCEPTABLE, THE MULCH WILL BE REMOVED AND ALL AREAS SHALL BE RESEED, REFERTILIZED AND REMULCHED PER RECOMMENDED APPLICATION PROCEDURES AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL BEGIN MAINTENANCE PERIOD IMMEDIATELY AFTER PLANTING OF VEGETATIVE COVER.
- THE CONTRACTOR SHALL MAINTAIN THE VEGETATIVE COVER AREA, FOR THE PERIODS REQUIRED TO ESTABLISH AN ACCEPTABLE GROWTH, BUT NOT LESS THAN 60 DAYS AFTER THE COMPLETION OF PLANTING OF VEGETATIVE COVER. IF SEEDED IN THE FALL AND NOT GIVEN A FULL 60 DAYS OF MAINTENANCE, OR IF NOT CONSIDERED ACCEPTABLE BY THE ENGINEER AT THAT TIME, CONTINUE MAINTENANCE DURING THE FOLLOWING SPRING UNTIL ACCEPTABLE VEGETATIVE COVER STAND IS ESTABLISHED.

C. PRODUCTS

- PLANT MATERIALS SHALL BE AS SHOWN ON THESE CONTRACT DRAWINGS AND MAY BE ANY COMBINATION OF THE FOLLOWING:
 - DECIDUOUS TREES.
 - DECIDUOUS SHRUBS.
 - CONIFEROUS AND BROAD LEAFED EVERGREEN TREES AND SHRUBS.
 - GROUND COVER.
 - PLANTS.
- LAWNS: LAWN MAY BE ANY OF THE FOLLOWING, AS APPROVED BY THE ENGINEER: SEED; NEW CROP SEED MIXTURE; SOD, STRONGLY ROOTED, 2 YEARS OLD; OR SOD PLUGS AND SPRIGS.
- TOPSOIL: FERTILE, FRIABLE TOPSOIL FROM OFFSITE, OR FROM SITE STOCKPILE WITH ADDITIONAL MIXED-IN FERTILE, FRIABLE TOPSOIL FROM LOCAL SUPPLIERS OF TOPSOIL.
- SOIL AMENDMENTS: THE SOIL AMENDMENTS MAY BE ANY OF THE FOLLOWING, AS REQUIRED OR INDICATED IN THE LABORATORY TESTING REPORTS.
 - LIME: DOLOMITIC LIMESTONE.
 - ALUMINUM SULFATE: COMMERCIAL GRADE.
 - PEAT HUMUS: FINELY DIVIDED PEAT.
 - SUPERPHOSPATE: 20 PERCENT AVAILABLE PHOSPHORIC ACID.
 - SAND: CLEAN, WASHED SAND.
 - PERLITE: NBS PS 23.
 - SAWDUST: ROTTED SAWDUST FREE OF CHIPS AND STONES.
 - MANURE: ROTTED STABLE MANURE.
 - COMMERCIAL FERTILIZER: NEUTRAL CHARACTER FOR PLANT MATERIALS AND LAWNS.
 - MULCH: SHREDDED HARDWOOD MULCH.
- LANDSCAPE MATERIALS: THE LANDSCAPE MATERIALS MAY BE ANY OF THE FOLLOWING, AS SHOWN ON THESE CONTRACT DRAWINGS.
 - GRAVEL: WATER-WORN GRAVEL.
 - ANTI-EROSION MULCH: SEED-FREE SALT HAY OR THRESHED STRAW.
 - ANTI-DESICCANT: EMULSION TYPE, FILM-FORMING.
 - PLASTIC SHEET: BLACK POLYETHYLENE, 8 MILS.
 - FILTRATION FABRIC: WATER PERMEABLE FIBERGLASS OR POLYPROPYLENE FABRIC.
 - WRAPPING: TREE-WRAP TAPE.
 - STAKES AND GUYS: NEW HARDWOOD, TREATED SOFTWOOD, OR REDWOOD.
 - METAL EDGING: COMMERCIAL STEEL EDGING.
 - WOOD HEADERS AND EDGING: ALL HEART REDWOOD OR PRESSURE TREATED SOUTHERN YELLOW PINE.



2 TREE PLANTING DETAIL
NOT TO SCALE

5' HT. - USE 2 STAKES, 1/2 HT. OF TREE +2'

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US-NC-5027

LUTHERAN

CHURCH

300 FINEVILLE MATTHEWS RD
MARIETTA, NC 28105

Professional Engineer



LANDSCAPE
DETAILS

Drawing Scale:
AS NOTED

Date:
05/16/16

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Z12